

ABSTRACT

To provide a bright, high-image-quality image display apparatus, in an overlap scanning mode in which two scan-wiring lines are selected simultaneously in each horizontal scanning period, high-frequency emphasis filtering is performed on a video signal so that a gain at a spatial frequency corresponding to $1/2$ of a vertical critical resolution is within the range of 0 dB to +6 dB. It is even preferable that a gain of this high-frequency emphasis filtering at a spatial frequency corresponding to $7/10$ of the vertical critical resolution be higher than or equal to +3 dB. For example, this high-frequency emphasis filtering can be implemented by a 3-tap FIR filter having filter coefficients $(h_1, h_2, h_3) = (-x/2, 1+x, -x/2)$.